AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT

1. CONTRACT ID CODE	PAGE	OF PAGES
J	1	2

2. AMENDMENT/MODIFICATION NO.	3. EFFECTIVE DATE	4. REQUISITION/PURCHASE REQ. NO.	5. PROJECT NO. *(If applicable)*
0004	27 April 2004		

6. ISSUED BY CODE

U.S. ARMY ENGINEER DISTRICT, ALBUQUERQUE
CORPS OF ENGINEERS
4101 JEFFERSON PLAZA, N.E.
ALBUQUERQUE, NEW MEXICO 87109-3435

7. ADMINISTERED BY *(If other than Item 6)* CODE

8. NAME AND ADDRESS OF CONTRACTOR *(No., street, county, State and ZIP Code)*

CODE FACILITY CODE

(√)	9A. AMENDMENT OF SOLICITATION NO.
X	W912PP-04-R-0011
	9B. DATED *(SEE ITEM 11)* 18 March 2004
	10A. MODIFICATION OF CONTRACTS/ORDER NO.
	10B. DATED *(SEE ITEM 13)*

11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS

☒ The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of Offers ☐ is extended, ☒ is not extended.

Offers must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or as amended, by one of the following methods:

(a) By completing Items 8 and 15, and returning _____ copies of the amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment you desire to change an offer already submitted, such change may be made by telegram or letter, provided each telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.

12. ACCOUNTING AND APPROPRIATION DATA *(If required)*

13. THIS ITEM APPLIES ONLY TO MODIFICATIONS OF CONTRACTS/ORDERS, IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14.

(√)	
	A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: *(Specify authority)* THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT ORDER NO. IN ITEM 10A.
	B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES *(such as changes in paying office, appropriation date, etc.)* SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 43.103(b).
	C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF:
	D. OTHER *(Specify type of modification and authority)*

E. IMPORTANT: Contractor ☐ is not, ☐ is required to sign this document and return _____ copies to the issuing office.

14. DESCRIPTION OF AMENDMENT/MODIFICATION *(Organized by UCF section headings, including solicitation/contract subject matter where feasible.)*

PROJECT: DESIGN/BUILD, ARSENIC TREATMENT SYSTEMS, KIRTLAND AIR FORCE BASE, BERNALILLO COUNTY, NEW MEXICO

1. This is Amendment No. 4 to Solicitation No. W912PP-04-R-0011; 18 March 2004. The following revisions shall be incorporated into the specifications. All other provisions shall remain unchanged.

Except as provided herein, all terms and conditions of the document referenced in Item 9A or 10A, as heretofore changed, remains unchanged and in full force and effect.

15A. NAME AND TITLE OF SIGNER *(Type or print)*		16A. NAME AND TITLE OF CONTRACTING OFFICER *(Type or print)*	
15B. CONTRACTOR/OFFEROR *(Signature of person authorized to sign)*	15C. DATE SIGNED	16B. UNITED STATES OF AMERICA BY *(Signature of Contracting Officer)*	16C. DATE SIGNED

2. SPECIFICATIONS: Delete the following listed pages and substitute the pages attached hereto. On the revised pages, for convenience, changes are emphasized by the amendment number in parentheses before and after changes from the previous issue. All portions of the revised (or new) pages shall apply whether or not changes have been indicated.

Delete Page	Insert Page
Volume 1 of 3	
01010-52	01010-52
01010-57	01010-57

////////LAST ITEM////////

shall become the property of the contractor, who shall remove it from the project site.

8.3 **Interior Electrical Systems.** The Contractor shall provide and install a complete interior electrical system as defined below.

8.3.1 **General.** The Contractor shall provide complete electrical systems as required below to all areas within, and associated with, the Main Pumping Station Building # 20370, and the associated D/G building. The Contractor shall provide power and controls to ALL equipment.

8.3.2 **SCADA.** Provide SCADA systems and equipment as described below.

8.3.3 **Building Systems.** Provide and install upgrades to the building system in the Main Pumping Station Building # 20370 as follows.

8.3.3.1 **Diesel Generator (D/G).** There is an existing 250 kW D/G in a small building (Bldg. # 20305) directly north of the Main Pumping Station building. This existing D/G, and all of its associated equipment, including transfer switch, fuel tank, piping, and power connections shall be removed. The building shall be left as is. In its place a new D/G, automatic transfer (4) switch (with full load by-pass isolation transfer switch provisions), fuel tank, and associated connections and equipment shall be installed. The new D/G and associated equipment shall be sized to start and run all of the loads in the Main Pumping Station Building, including one of the four existing 60 Hp booster pumps (Note: The four booster pumps are to remain during this project but future plans are to remove three of them), plus 25% spare (4) capacity for future loads. The D/G shall be installed, in a suitable exterior location, in an exterior rated weather proof enclosure, shall be provided with base mounted skid tank, and connected into the Main Pumping Station Building through and automatic transfer switch. The D/G and associated equipment shall be rated for "Optional Stand-by" power per the NEC, but shall be capable of starting and being on line in 10 seconds. The base mounted fuel tank shall be sized to allow a run time of 48 hours at full load.

8.3.3.2 **Motor Control Center (MCC).** There is an existing MCC along the north wall in the Main Pumping Station Building, which serves as the service entrance and main distribution gear for the building. This MCC and all of its associated equipment shall be removed. In its place a new MCC shall be installed. The new MCC shall be sized to supply 150% of the building demand load, shall be designed to start and run all of the water/booster pumps that (4) will be housed in the building after the system upgrade (Note: This includes all four of the existing 60 Hp booster pumps), and shall be designed to (4) supply all of the other normal building loads (e.g.: lighting, heat, SCADA system, etc.).

8.3.3.3 **Control Room.** The SCADA system Control Room shall be upgraded as part of this project. All electrical systems necessary for this upgrade, including lights, power, and special systems, shall be provided as part of this upgrade.

8.3.3.3.1 **Cable Tray.** The new/upgraded control room shall be provided with a 6" deep x 12" wide cable tray, mounted at ceiling height, and running all the way around the room.

#10 and #12 shall be solid; conductors #8 and larger shall be stranded. All conductors shall be installed in metallic conduit. Nonmetallic electrical conduit (smurf tube) is not allowed. Wire types THW or THWN shall be used. Fixture whips shall be armored cable or conductors installed in metallic flex. Type NM and MC cable is not acceptable.

8.3.12 **Wiring Methods**. Wiring methods in addition to those required above, shall be as required by the COE guide specifications and the NEC. The Contractor shall edit the specifications so that all quality control and installation requirements specified in the COE guide specifications are included in final draft.

8.3.12.1 **120 Volt Circuits**. The circuits shall be 20 Ampere, 120 Volt, 2-wire plus ground branch circuits, with NEMA 5-20R 2-pole 3-wire duplex receptacles.

8.3.12.2 **Branch Circuits, Receptacles and Outlets**. All general receptacle and lighting circuits shall be 20 Ampere circuits, minimum, fed by 20 Ampere circuit breakers. All branch circuits required by the National Electrical Code shall be provided. Receptacles on opposite sides of common walls shall be horizontally offset.

8.3.12.3 **Separate Circuits**. Lighting and receptacles shall be on separate branch circuits.

8.3.12.4 **Outlets per Circuit**. A maximum of 6 duplex outlets, rated at 180VA, may be installed per circuit.

8.3.12.5 **Power Supplies.** All equipment, pumps (including any pumps installed as an option), controls, and other miscellaneous electrically driven materials shall be provided with a full wire/cable power supply. Wiring methods shall be as required above and sized per the NEC for the load.

8.3.13 **Diesel Generators at Well Sites.** A new Diesel Generator (D/G), automatic transfer switch, fuel tank, and associated connections and equipment shall be installed at Well Sites # 1, # 2, and # 3. Well # 1 is (4) currently a 150 Hp pump, Well # 2 is 100 Hp, Well # 3 is 150 Hp and has two 60 Hp booster pumps, and at each site there are miscellaneous loads (4) associated with the building. The new D/Gs and associated equipment shall be sized to start and run all of the loads at each well site, plus 25% spare capacity for future loads. Each D/G shall be installed, in a suitable exterior location, within the well site fence enclosure, in an exterior rated weather proof enclosure, shall be provided with base mounted skid tank, and connected into the well site power service entrance through and automatic transfer switch. Each D/G and associated equipment shall be rated for "Optional Stand-by" power per the NEC, but shall be capable of starting and being on line in 10 seconds. Each base mounted fuel tank shall be sized to allow a run time of 24 hours at full load.

8.4 **SCADA Systems**. The Contractor shall design, provide and install a complete new SCADA system for the KAFB base wide water supply system.